

INSTALLATION INSTRUCTIONS

Indoor Load Center Enclosure



IMPORTANT SAFETY INSTRUCTIONS - READ ALL INSTRUCTIONS BEFORE USING.

PK-A3214-10-00-0E

⚠ WARNINGS

- **TO AVOID FIRE, SHOCK, OR DEATH, TURN OFF POWER SUPPLYING THIS EQUIPMENT AND CONFIRM POWER IS OFF,** before installing, removing, or servicing this equipment.
- **TO AVOID RISK OF FIRE,** check all wiring and ensure all circuit breakers are installed in the proper position before energizing panel.
- This equipment **MUST BE** installed and serviced by an electrician.
- To be installed and/or used in accordance with electrical codes and regulations.
- Use **ONLY** approved fittings and clamps to avoid damage to wires.
- Leviton® circuit breakers **MUST BE** used with a Leviton circuit breaker enclosure.
- Before providing power to the load center, check all electrical connections and confirm that the wiring is correct.
- Replace all doors and covers before connecting power to this equipment.
- **SAVE THESE INSTRUCTIONS.**

LIMITED PRODUCT WARRANTY

For Leviton's limited product warranty, go to www.leviton.com. For a printed copy of the warranty, you may call 1-800-323-8920.

Patents covering this product, if any, can be found on Leviton.com/patents.

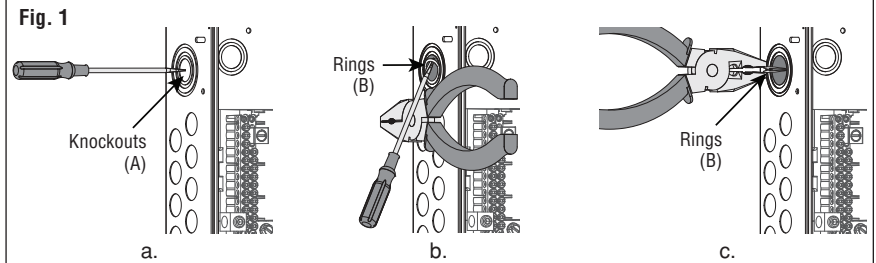
INSTALLATION

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Step 1: Enclosure Knockouts

NOTE: Before removing any knockouts from the enclosure, consult the local electrical code to determine the knockout requirements.

- To remove **knockouts (A)**, first strike the center of the knockout.
- Pry each **ring (B)** up, one at a time, and grip both ends with a pair of pliers.
- Use pliers to bend rings until they disconnect from enclosure (*fig. 1*).

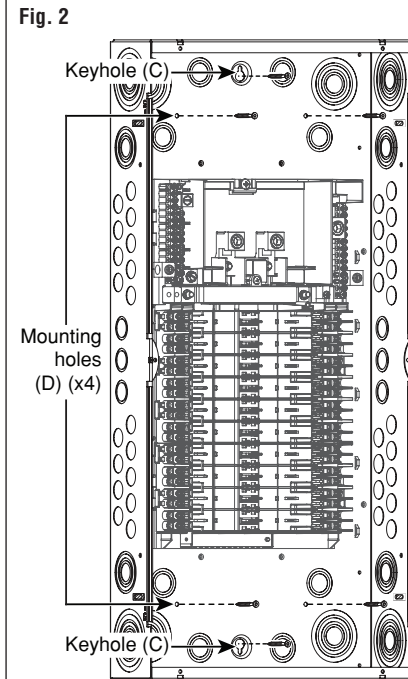


Step 2: Enclosure Mounting

Surface Mounting

NOTE: Leviton load centers can be inverted for bottom feed applications.

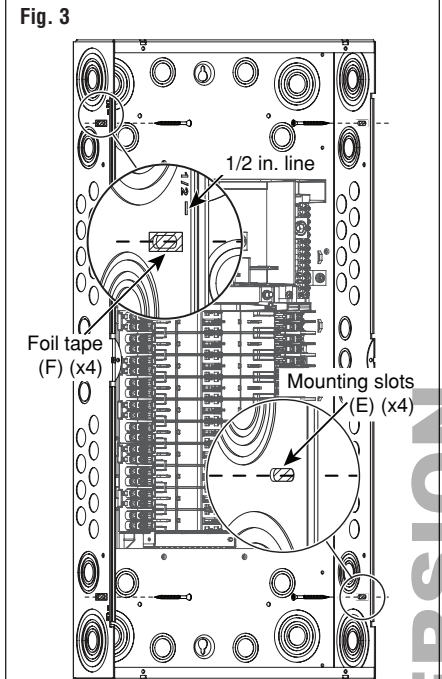
- Keyholes (C)** at the top and bottom of the enclosure are provided to assist in the alignment and leveling of the enclosure (*fig. 2*).
- Temporary screws or nails (not provided) should be used in these keyholes during alignment and leveling.
- Four (x4) **mounting holes (D)** have been precut in the back of the enclosure for ease of installation (*fig. 2*).
- Use screws or nails (not provided) in these four (4) **mounting holes (D)** to secure the enclosure to the wall.
- Remove the temporary screws or nails that were used to align and level the enclosure through the **keyholes (C)**.



Flush Mounting

NOTE: Leviton load centers can be inverted for bottom feed applications.

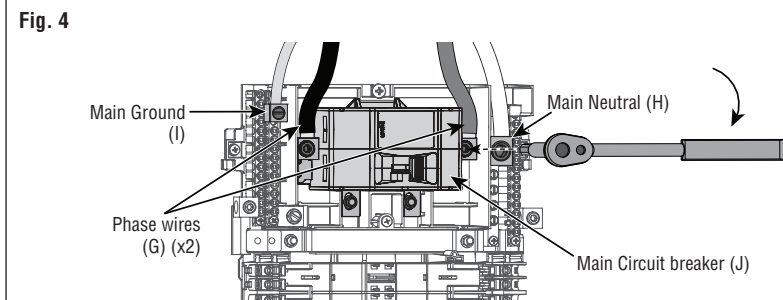
- Four (x4) **mounting slots (E)** have been precut on the side of the enclosure for installation between studs.
- Pierce **foil tape (F)** on side of enclosure with a mounting screw or nail.
- If using 1/2-inch sheetrock, align the embossed (1/2) line with the front of the stud to achieve optimal flush mounting.
- Use the **mounting slots (E)** on both sides of enclosure to mount the enclosure with screws or nails (not provided) (*fig. 3*).



Step 3: Phase, Neutral, and Ground Conductors

WARNING: Use **ONLY** approved fittings and clamps to avoid damage to wires.

- Bring the **phase wires (G)**, **neutral (H)**, and **ground (I)** conductors into the enclosure through the predetermined knockouts.
- Determine whether or not the application requires the use of a **main circuit breaker (J)** (*fig. 4*), or if **main lugs (K)** (*fig. 5*) can be used based on the local electrical codes.
- Connect the **phase wires (G)**, **neutral (H)**, and **ground (I)** conductors to appropriate terminals and torque to spec in the Terminations table (*fig. 4 or 5*).
- If installing with a **main circuit breaker (J)**, also install the **terminal covers (L)** that have been provided (*fig. 6*).
- When installing this enclosure as the service entrance, the **bonding strap (M)** (included) **MUST BE** installed (*fig. 7*). Torque to 20 lb-in.



WEB VERSION

- f. When installing this enclosure as a sub panel, **DO NOT** install the **bonding strap (M)**. With the bonding strap removed, ground conductors must be terminated on the ground bar and neutral conductors must be terminated on the neutral bar.

Step 4: Branch Circuit Breakers

WARNING: Leviton circuit breakers **MUST BE** used with a Leviton circuit breaker enclosure.

- a. Strip and connect the load power and load neutral wires to the **load terminals (N)**, and ground wire to the **ground bus (O)** of the circuit breaker enclosure (*fig. 8*). Strip wires and torque load terminals to spec in the Terminations table.

NOTE: Ensure that the main breaker is in the OFF position before installing any branch circuit breakers.

NOTE: Ensure that all branch circuit breakers are in the OFF position before installing into the panel.

WARNING: TO AVOID RISK OF FIRE, check all wiring and ensure all circuit breakers are installed in the proper position before energizing panel.

- b. Align the **hooks and guides (Q)** of the branch circuit breaker with the panel and press until breaker snaps into place (*fig. 9*).

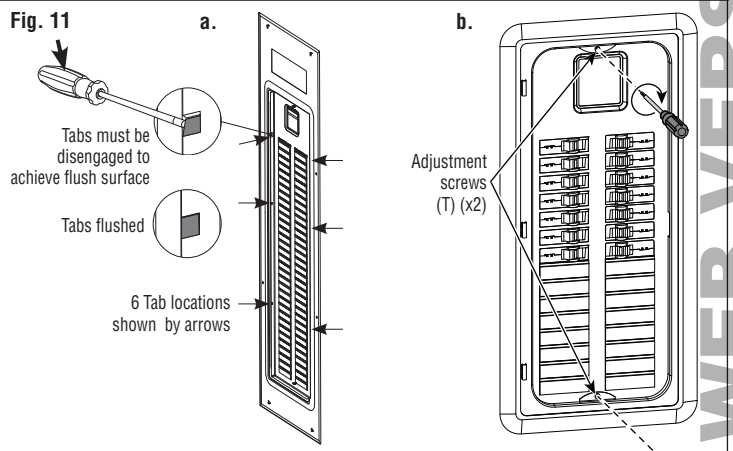
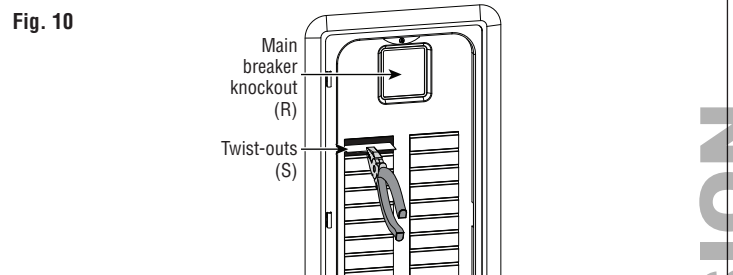
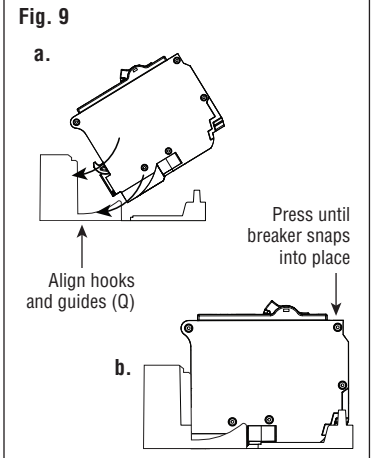
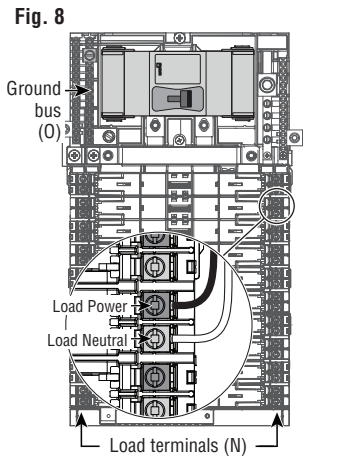
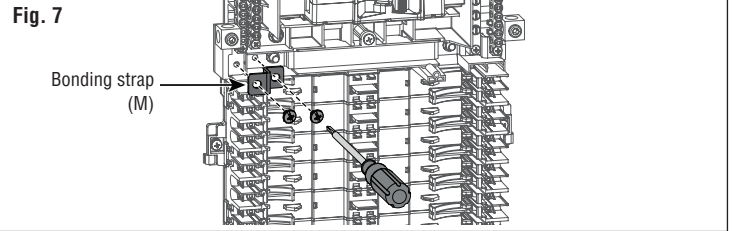
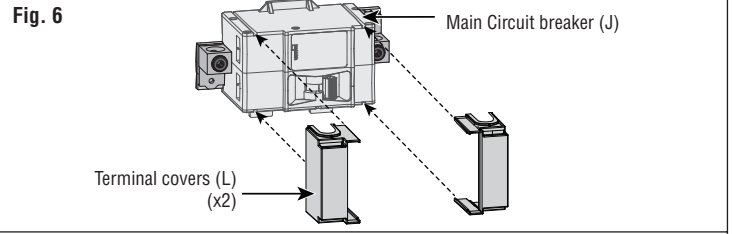
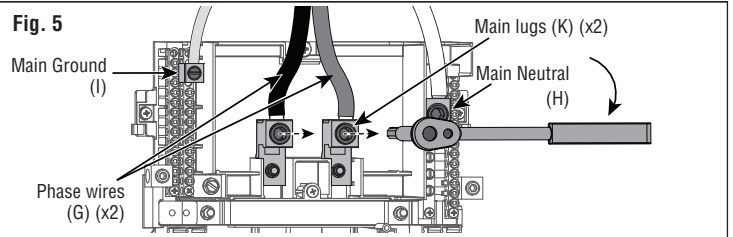
Step 5: Installing Cover (Sold separately)

- a. Remove the **main breaker knockout (R)** if a main breaker was installed. Do not remove in installations using the **main lugs (K)**.
- b. **Twist-outs (S)** must be removed for each position that contains a branch circuit breaker.
- c. To remove **twist-outs (S)**, first strike with a screwdriver and then twist with pliers until detached (*fig. 10*).
- NOTE:** Fill any unused open spaces in cover using filler plates.
- d. Install the door, using the cover screws (provided).
- e. Leviton covers contain a feature for adjustment in flush mounting applications. In flush mount applications for covers larger than 42 spaces, deadfront interlock tabs **MUST BE** disengaged to allow for adjustment of deadfront position (*fig. 11a*). Turn each **adjustment screw (T)** until the cover fits tightly against the circuit breakers (*fig. 11b*).
- f. Apply circuit directory labels in the appropriate location, depending on cover/door type.

Step 6: Complete the Installation

WARNING: Before providing power to the load center, check all electrical connections and confirm that the wiring is correct.

- a. Ensure that the main and all branch circuit breakers are in the OFF position. To energize, first turn ON the main breaker and then turn ON each individual branch circuit breaker.



TERMINATIONS

Termination Point	Wire Material	Wire Gauge	Strip Length	Torque
Main Breaker	Copper/Aluminum	#3 AWG - 300 MCM	1.0 in.	250 in.-lbs.
Main Lug	Copper/Aluminum	#6 AWG - 300 MCM	1.0 in.	375 in.-lbs.
Neutral Line	Copper/Aluminum	#6 AWG - 300 MCM	1.5 in.	375 in.-lbs.
Ground	Copper/Aluminum	#4 AWG - 2/0 AWG	0.75 in.	50 in.-lbs.
Load Phase (brass) & Load Neutral (silver)	Copper	(1) #4 AWG - #8 AWG, Stranded	0.4 in.	45 in.-lbs.
		(1) #10 AWG, Solid or Stranded		35 in.-lbs.
		(2) #14 AWG - #10 AWG, Solid		35 in.-lbs.
		(1) #12 AWG - #14 AWG, Solid or Stranded		25 in.-lbs.
		(2) #14 AWG or (2) #12 AWG, Stranded		25 in.-lbs.
	Aluminum	(1) #4 AWG - #6AWG, Stranded		45 in.-lbs.
		(1) #8 AWG, Stranded		35 in.-lbs.
		(2) #12 AWG - #10 AWG, Solid		35 in.-lbs.
		(1) #10 AWG - #12 AWG, Solid		25 in.-lbs.
		(2) #12 AWG or (2) #10 AWG, Solid		25 in.-lbs.
Neutral & Equipment Ground Bar	Copper/Aluminum	(1) #6 AWG - #4 AWG, Stranded	0.5 in.	35 in.-lbs.
		(1) #8 AWG, Stranded		25 in.-lbs.
	Copper	(2) #14 AWG - #10 AWG, Solid or Stranded		25 in.-lbs.
		(1) #14 AWG and (1) #12 AWG, Solid		25 in.-lbs.
		(1) #14 AWG and (1) #10 AWG, Solid or Stranded		25 in.-lbs.
		(1) #12 AWG and (1) #10 AWG, Solid		25 in.-lbs.
		(2) #12 AWG - #10 AWG, Solid		20 in.-lbs.
		(1) #12 AWG and (1) #10 AWG, Solid		20 in.-lbs.
	Aluminum	(1) #12 AWG and (1) #10 AWG, Solid		20 in.-lbs.
		(2) #12 AWG - #10 AWG, Solid		20 in.-lbs.
Neutral Bar	Copper/Aluminum	#4 AWG - #1 AWG, Stranded	0.5 in.	50 in.-lbs.
	Copper	#8 AWG - #6 AWG, Stranded		30 in.-lbs.
	Aluminum	#14 AWG - #10 AWG, Solid or Stranded		30 in.-lbs.
		#12 AWG - #10 AWG, Solid		30 in.-lbs.